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EUROPEAN PATENT APPLICATION

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- (s) Int. Cl.5: C12Q 1/68 , //C07H21/02

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 BE DE ES FR GB IT LU NL
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- Applicant: ORTHO DIAGNOSTIC SYSTEMS INC.
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- Inventor: Zivin, Robert A. 16 Fieldstone Place Flemington, N.J. 08822(US) Inventor: Monahan, John A. 23 Harding Road North Reading, Mass. 01864(US)
- Representative: Jones, Alan John et al CARPMAELS & RANSFORD 43 Bloomsbury Square London, WC1A 2RA(GB)
- Methods and probes for detecting nucleic acids.
- An in solution hybridization method utilizes two soluble oligonucletide probes. One of the probes has a homopolynucleotide tail which is captured by a solid support coated with a complementary homopolynucleotide. A ribosomal RNA sequence specific to M. pneumoniae and synthetic probes complementary thereto are provided. Methods are provided for specifically identifying the presence of Mycoplasma pneumoniae 16S ribosomal RNA in a sample by using at least one synthetic nucleic acid probe complementary to the 16S ribosomal RNA in a hybridization assay. The methods comprise providing at least one synthetic probe which has a sequence complementary to at least a portion of a ribosomal RNA sequence specific to M. pneumoniae.

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EUROPEAN SEARCH REPORT

EP 88 30 7793

Category		with indication, where appropriate, evant passages	Relevant to claim	CLASSIFICATION OF TH APPLICATION (Int. CI.4)	
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	* Whole article	*	1-6		
					
X	EP-A-0 139 489 SYSTEMS INC.)	(ORTHO DIAGNOSTIC	ن. •		
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x	J. GEN. MICROBION 1987, pages 196 U.B. GÖBEL et a probes complement regions of ribon minate between				
	* Whole article	* ./.	7-11		
<u> </u>	The present search report has t	been drawn up for all claims			
Place of search		Date of completion of the search	Examiner		
Tue	Hague	06-02-1990		OSBORNE	
Y: part doc A: tech	CATEGORY OF CITED DOCL icularly relevant if taken alone icularly relevant if combined wument of the same category innological background -written disclosure	rith another D : document c L : document c	nt document, ng date nted in the ap nted for other	lying the invention but published on, or plication reasons ant family, corresponding	



CL.	AIMS INCURRING FEES
The present	European patent application comprised at the time of filing more than ten claims.
	All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
· _	Only part of the claims fees have been paid within the prescribed time limit. The present European search
· []	report has been drawn up for the first ten claims and for those claims for which claims fees have been paid.
-	namely, claims:
	No claims fees have been paid within the prescribed time limit. The present European search report has been
Ļ	drawn up for the first ten claims.
	CK OF UNITY OF INVENTION
	Division considers that the present European patent application does not comply with the requirement of unity of dividians or groups of inventions.
namely:	a i mates to saveral inventions of groups of inventions.
1. C1	aims 1-6: a solution hybridization assay method
2. Cl	aims 7-11: detection of mycoplasm using nucleic
	acid probes
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, Q	All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
	Only part of the further search fees have been paid within the fixed time illmit. The present European search
	report has been drawn up for those parts of the European patent application which relate to the inventions in
·	respect of which search lees have been paid.
	namely claims:
	None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.
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EUROPEAN SEARCH REPORT

EP 88 30 7793 -2-

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	The present search report has t	oeen drawn up for all claims			
	Place of search	Date of completion of the searc	n		Examinor .
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